

**Table S4: Estimated parameters for ZIKV infection when Tahiti serological survey is included in the likelihood.** Estimates for the basic reproduction number,  $R_0$ ; the proportion of infected individuals that were reported as suspected cases at sentinel sites; and the total proportion of the population infected (including both symptomatic and asymptomatic cases, with reports following a negative binomial distribution with reporting proportion  $r$  and dispersion parameter  $\phi$ ). Median estimates are given, with 95% credible intervals in parentheses.

Region	$R_0$	Reported (%)	Infected (%)
Tahiti	1.2 (0.52-1.5)	11 (0.79-46)	67 (63-71)
Sous-le-vent	3.7 (3-5.8)	11 (8.2-14)	96 (92-98)
Moorea	5.6 (3.1-9.9)	7.1 (2.9-13)	97 (92-99)
Tuamotu-Gambier	2.9 (2.2-5)	7 (4-11)	90 (81-95)
Marquises	2.6 (1.9-3.7)	9.4 (2.8-22)	87 (75-95)
Australes	3.1 (2-4.9)	17 (8.7-30)	89 (77-95)